

DIGAM QTU SERIES

- Specifically designed for PA applications
- Four channel with isolated output
- Input monitoring by inner loudspeaker or headphones

The highest efficiency solution for professional medium/large PA applications



The QTU Series is specifically designed for 50/70/100V Public Address installations where a compact and powerful system is a premium. Extremely low power consumption make this unit especially suitable for applications from medium to large installations. The QTU1400 provide four channels with isolated transformer in a compact 2U size. The remote control and monitoring functions are optional with a dedicated plug in module. The extended networking capability supported by the remote control system allows an easy and safe management of sound diffusion coverage.

Output Specification*

	100 V out/28.5Ω	70 V out/14.0Ω	50 V out/7.14Ω
QTU1400	350 W	350 W	350 W

*power continuous 1kHz 0.5%THD

Features:

- Advanced switch-mode worldwide operating power supply technology for high performance and compact size
- Power Factor Correction (PFC) for extremely low mains consumption and wide main operating range
- Variable speed fan for low noise
- Inrush Limiter for low AC inrush current, removing the need for expensive power sequencers
- Phoenix type detachable screw input connectors with link capability
- Built-in clip limiters
- Detented gain controls for fast and accurate gain settings
- Comprehensive front panel indicators including signal clip, protect and thermal forecast
- Fully protected circuit design including DTMF, high frequency, thermal overload and short circuit
- Output secondary side signal monitoring as well as input signal monitoring
- Doubled inputs for redundant alarm message priority (24Vdc command)
- Headphone and built in loudspeaker for input / output signal monitoring
- Fixed frequency switch mode output stage for high grade sound accuracy
- Compact size: all models only 1RU for reduced rack cost and space
- Overall Light weight: all models only 2.9kg (6.3 pounds) for easy racking and shipping
- Remote Control Option (RS 485 interface)

Audio Section:

Channels: 4
Bandwidth (1W, 100V output/28.5): 50Hz – 20KHz
SNR (20Hz-20kHz Aweighted): > 105dB
Distortion THD: Max < 0.5%rdm 0.1Wto fullpower (typically < 0.1%)
Intermodulation distortion DIM100 Max < 0.02%rdm 0.1Wto fullpower (typically < 0.01%)
Intermodulation distortion SMPTE Max < 0.5%rdm 0.1Wto fullpower (typically < 0.1%)
Voltage Gain: 34dB (50), 37dB (70), 40dB (100)
Slew Rate (100V output/28.5): 30Vµs (input filter bypassed)

Power Section:

AC Line Voltages: 95 - 265V (50/60Hz)
Power Factor cos(φ): More than 0.95rdm 200W to fullpower
Operating Environment Temperature: 0°C / + 45° C
Consumption Average: 370 W

Input/Output:

Input Connectors: Balanced to ground, three pole Phoenix® style detachable
Input Impedance: 10 kΩ each leg electronically balanced to ground
Output Connectors: Insulated floating, Phoenix® style detachable

Protections:

DC protection: protects against inductive signals
VHF protection: protects the loudspeakers against strong very high frequency non-musical signals above the audible range.
Thermal protection: prevents the amplifier from being overheated. The protection indicators on the front panel are switched on as a warning, before the protection process is initiated.
AC protection: shuts down the power supply if the line voltage is outside the operating voltage.
Clip limiter: prevents severely clipped waveforms from reaching the loudspeakers, whilst maintaining full peak power.

Controls/Indicators:

Front Panel: Channel gain control knobs, channel output level indicator, ready status channel led, temperature status channel led, input signal presence led, output stage protection led, input signal monitor selection indicator, output signal monitor selection indicator, monitor gain control knob, monitor selection pushbutton, headphone jack 6.3mm

Construction:

External Dimensions: Standard rack 19 - 2 units (HxWxD) 88x482x480 mm
Weight: 29 Kg

Accessories:

Networking: Optional

Main Applications:

Public Address

